ENT(m)/ETC(F)/EWG(m)/EWP(j)/T/EWP(t)/EWP(b) IJP(c) DS/JD/RM ACC NR: AP5027580 SOURCE CODE: UR/0364/65/001/011/1344/1351 -

AUTHOR: Alpatova, N. M.; Kessler, Yu. M.; Gorbanev, A. I.

ORG: Institute of Electrochemistry, Academy of Sciences SSSR (Institut elektrokhimii Akademii nauk SSSR) 455

Anodic behavior of silicon in some nonaqueous solvents. II.

Elektrokhimiya, v. 1, no. 11, 1965, 1344-1351

TOPIC TAGS: silicon, oxidation, organic solvent, electrochemistry, organosilicon compound, electroplating

ABSTRACT: This article reports on the continuation of work previously reported in Elektrokhimiya, 1, 844 (1965). To determine the nature of the anodic reaction of the first polarization wave during the dissolution of Si in chloride solutions in N-methylformaamide solvent, polarization studies were conducted with stationary and rotating electrodes / Measurements were also made in methylchlorosilane solutions. p-type silicon of 0.045 ohm cm resistivity and n-type silicon of 0.040 ohm cm resistivity were used as anodes. Polarization measurements were made with the lower faces of cylinders 1.8-3.0 mm in diameter, pressed into teflon. The faces of the silicon cylinders were successively electro-

Card 1/2

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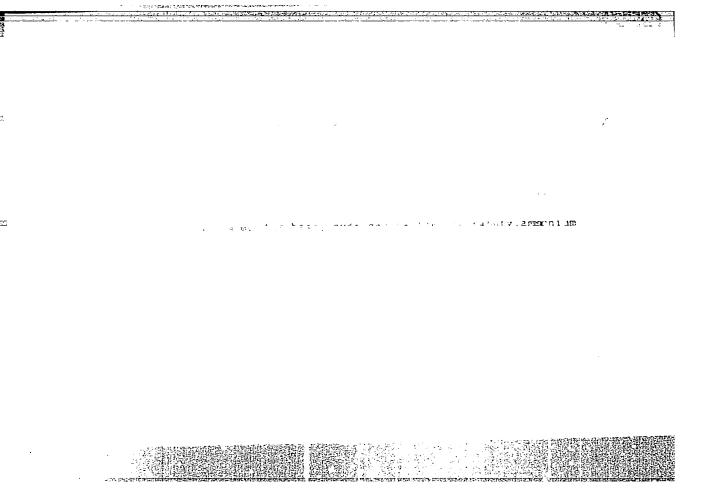
plated with palladium and copper and copper leads were soldered to them. The potential of the anode was measured with respect to the aqueous saturated calomel electrode. Electrode polarization was both galvanostatic and potentiostatic. The anode polarization curve for p-type silicon in N-methylformaamide solutions has two waves, where the first wave corresponds to the dissolution of silicon with the participation of solvent and the second wave corresponds to the oxidation of the solvent. The reaction is inhibited prior to the second wave, which is explained on the basis of adsorption of chloride ions on the electrode surface. It was shown that the holes participate in the anodic dissolution of silicon just as in the case of aqueous solutions. It is concluded that the results of this work will be useful in the preparation of silicon surface relatively free of oxide film, electropolishing of silicon, and production of new organosilicon compounds. The authors wish to express their gratitude to L. I. Krishtalik for the valuable remarks which he made in the course of the discussion of the results. Orig. art. has: 7 figures.

SUB CODE: 0.07/ SUBH DATE: OOHar65/ ORIG REF: 006/ OTH REF: 004

KESSLER, Yu.M.; POVAROV, Yu.M.

Change in the structure of a solvent in a coulombic field of ions and the thermodynamics of strong electrolyte solutions. Zhur. struk. khim. 6 no.3:361-370 My-Je 165. (MIRA 18:8)

1. Institut elektrokhimii AN SSSR.





ALPATOVA, N.M.; KESSLER, YU.M.; GORBANEV, A.I.

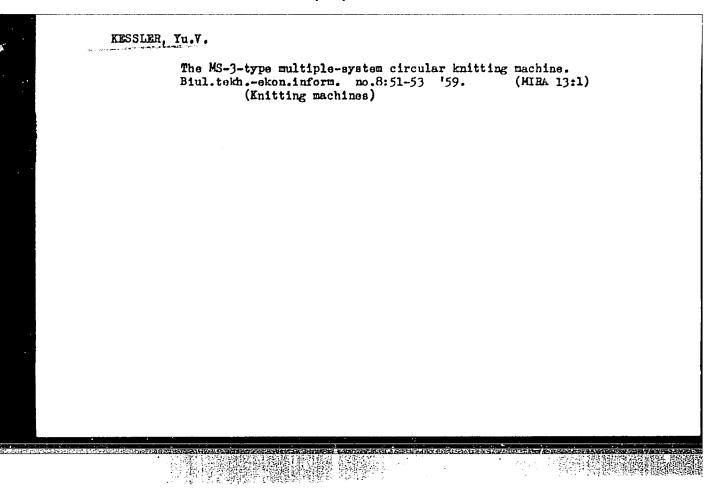
Interaction between methylchlorosilanes with complex compounds of tetra-substituted ammonium halides and HCl. Zhur. neorg. khim. 10 no.7:1566-1571 Jl *65. (MIRA 18:8)

1. Institut elektrokhimid AN SSSR.

KESSLER, Yu.M.; OSIPOV, O.R.

Electromagnetic chopper with a wide regulation range of the operational pulses. Zhur.fiz.khim. 39 no.11:2847-2848 N 165. (MIRA 18:12)

1. Institut elektrokhimii AN SSSR.



KESSLER, Yu.V.

The MS-4 circular knitting machine, Biul. tekh.-ekon. inform.
no.10:54-55 '59. (MIRA 13:3)
(Knitting machines)

s/0191/64/000/007/0065/0066

ACCESSION NR: AP4041789

AUTHOR: Kestek'man, V.M.; Fel'dman, D. I.; Kestel'man, N. Ya.

Abrasion resistance of polyformaldehyde used in slide bearings

TITLE: SOURCE: Plasticheskiye massy*, no. 7, 1964, 65-66.

TOPIC TAGS: polyformaldehyde, slide bearing, polyformaldehyde sleeve, abrasion, Kapron sleeve, polyformaldehyde abrasion, automobile bearing

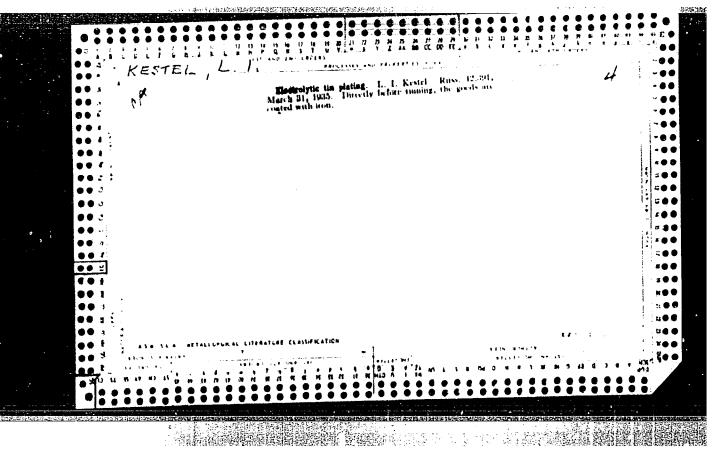
ABSTRACT: The main characteristics of polyformaldehyde are tabulated, a formula is presented for the calculation of the coefficient of friction, and the results of laboratory tests of bearings with polyformaldehyde sleeves are discussed. Using the Shkoda-Savina and MI-IM machines, the wear of polyformaldehyde and Kapron sleeves was compared in relation to the load, duration of friction and specific pressure. The results showed that polyformaldehyde was markedly superior to Kapron. This was confirmed by extensive laboratory tests carried out at the "Kommunar" auto plant with the front suspension bearings of the "Zaporozhets" automobile, manufactured of polyformaldehyde, Kapron or a metalloceramic material (Fe-Cu-C). These tests

Co Card 1/2

KESTEL', A.S.

Casting large pieces with reduced machining allowance. Lit.proizv. no.2 supplement:18-21 '56. (MIRA 9:7) (Steel castings)

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KENTEL! , L. P.

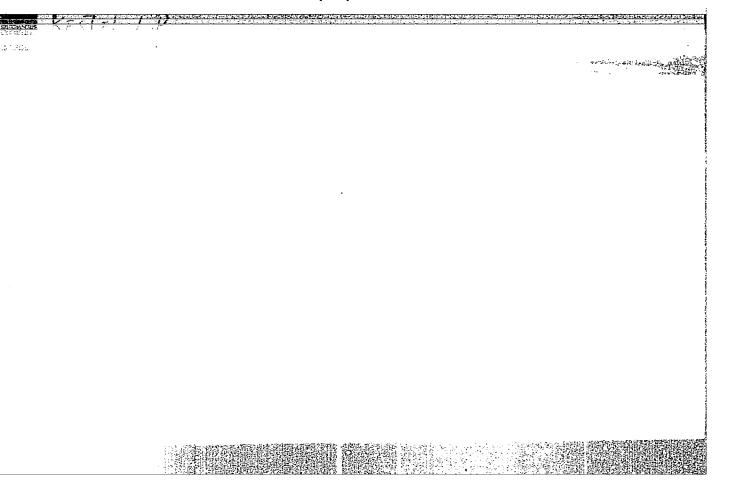
RT- 1567 (The study of corrosion stability of boiler steels under the action of high temperature steam) Izuchenie korrozionnoi stoikosti kotel'nykh stalei pod vozdeistviem para vysokikh temperatur. Pages 62-76 from:
KORROZIIA METALLOV POD MAPRIAZHENIEM I SPOSCBY ZASHCHITY Moscow, 1950, (Orginal Russian source unavailable for review)

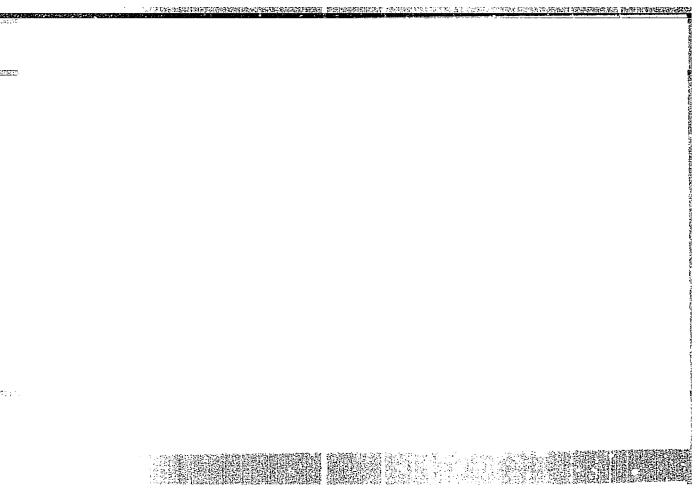
MOSTOLI, L. P. (Engr) and DATITOVSYAYA, Yo. A. Cand Tech Sai

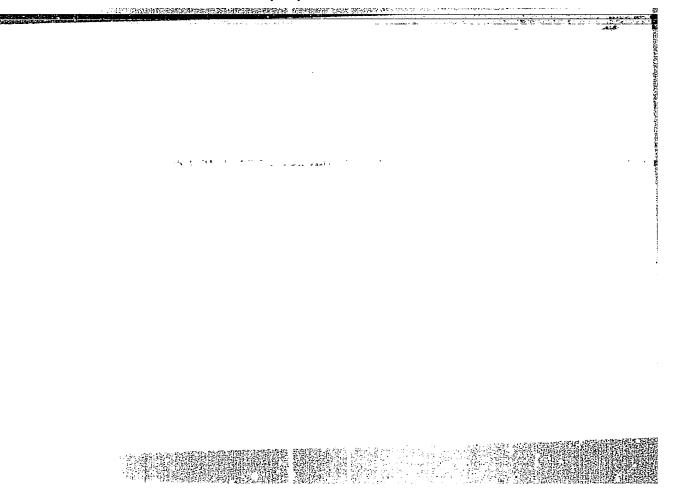
"Method of Testing Steel for Gad Corrosion at Mich Temperatures," one of eight articles appearing in the book: "Investigation of the Stress Corrosion of Metals," edited by G.V.Akimov, Mashgiz, Moscow, 1953

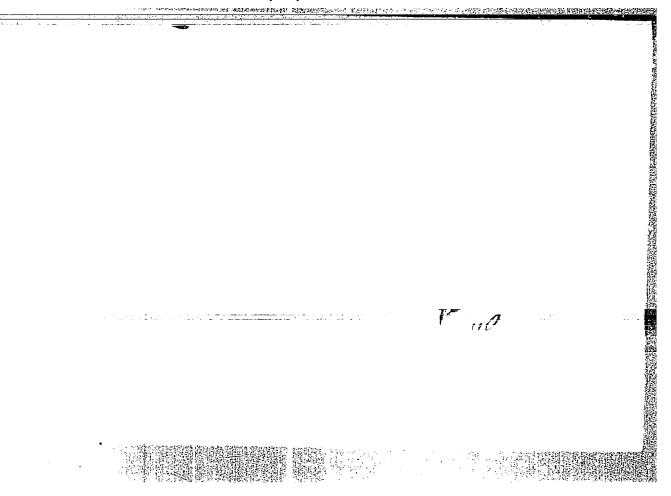
Central Sci Res Inst of Technology and Machine Eldg

Translation 1 - 315%, 15 Dec 55









DAVIDOVSKAYA, Yelena Aleksandrovna, kand. tekhn. nauk; KESTEL',

Lyubov' Prokof'yevna, inzh.; URYUPINA, Yekaterina Ivanovna,

kand. tekhn. nauk; RAGAZINA, M.F., inzh., ved. red.;

SAMOKHOTSKIY, A.I., inzh., red.; PONOMAREV, V.A., tekhn.red.

[Effect of heat treatment on the tendency in stainless steel toward intercrystalline corrosion] Vliianie termicheskoi obrabotki na sklonnost' nerzhaveiushchikh stalei k mezhkristallitnoi korrosii. Moskva, Filial Vses. in-ta nauchn. i tekhn. informatsii, 1958. 11 p. (Peredovoi nauchno-tekhnicheskii i proizvodstvennyi opyt. Tema 13. No.M-58-15/1) (MIRA 16:3) (Steel, Stainless—Corrosion) (Metals, Effect of temperature on)

DAVIDOVSKAYA, Ye.A., kend.tekhn.neuk; KESTEL', L.P., inzh.

Investigating the heat resistance of alloyed stenls in various gas media. Energomashinostroenie 4 no.11:15-19 N '58,

(Steel alloys) (MIRA 11:11)

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AUTHORS: Davidovskaya, Ye. A., Candidate of Technical Science and

Kestel', L. P., Engineer

Investigation of the Influence of Super-Heated Water TITLE:

Vapour on the Long Duration Strength of Austenitic Steel

(Issledovaniye vliyaniya peregretogo vodyanogo para na dlitel'nuyu prochnost' austenitnoy stali)

PERIODICAL: Metallovedeniye i Obrabotka Metallov, 1958, Nr 8, pp 29-33 (USSR)

ABSTRACT: The aim of the work described in this paper was to study the influence of super-heated steam on the long duration strength of the Steel EI257 at 600°C. The test specimens were produced from cut-offs of tubes of 102/68 mm; the blanks were first hardened from 1150°C in water. The chemical composition and the mechanical properties of the steel of the individual specimens are entered in Tables 1 The specimens were of 4 mm dia. with a test and 2, p 30. The length of 25 mm. The long duration strength tests were The test rig for testing effected on test machines VP-8. in the gaseous medium consisted of a steam generator, a

Card 1/4 which is reproduced in Fig.1, p.30. Comparative tests

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Investigation of the Influence of Super-Heated Water Vapour on the Long Duration Strength of Austenitic Steel

were effected for two types of heat treatment, namely hardening and hardening followed by tempering at 750°C for ten hours. After hardening, the structure consisted of austenite with a small quantity of carbide separations predominantly along the grain boundaries; in this state the steel is chemically stable and does not tend to develop inter-crystallite corrosion. However, after short duration annealing at 600-800°C considerable quantities of the carbide phase separate out from the solid solution; the chemical stability of the steel is appreciably reduced and it becomes prone to inter-Therefore, the investigations were crystallite corrosion. carried out using two differing types of heat treatment and the results are entered in Table 3 and graphed in It can be seen that the time to failure is practically equal in super-heated steam and in air; it can be seen from Fig. 2 that the stress-time to failure relation is represented in logarithmic coordinates by a straight line without any discontinuity. After tempering Card 2/4 (at 750°C for ten hours), the steel showed great

Investigation of the Influence of Super-Heated Water Vapour on the Long Duration Strength of Austenitic Steel

inclination to inter-crystallite corrosion and was less stable and in such a state the steel must not be used for operation in liquid media. The actual results of tensile tests at 600°C in such a state are entered in Table 4 (for air and super-heated steam), The long duration strength of this steel was also investigated in super-heated steam at 600°C in presence of a molten alkali and the results are entered in Table 5. The carried out tests indicate that pure super-heated steam which does not contain any salt admixtures does not reduce the strength of this steel at high temperatures. However, the presence of salts which become deposited on such steel may reduce appreciably the strength characteristics and, therefore, in practical operation it is essential to purify carefully the super-heated steam from salt

Card 3/4 contaminations.

Investigation of the Influence of Super-Heated Water Vapour on the Long Duration Strength of Austenitic Steel

There are 3 figures, 5 tables and 1 Soviet reference.

ASSOCIATION: TSNIITMASh

- 1. Steel--Mechanical properties 2. Steel--Test methods
- 3. Steel--Temperature factors 4. Steam--Applications

Card 4/4

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721610015-8"

DAVIDOVSKAYA, Ye.A., kand.tekhn.nauk; KESTEL!, L.P., inzh.

Heat resistance of austenite steels in gaseous media.

[Trudy] TSNIITMASH 100:59-69 *59. (MIRA 13:7)

(Heat-resistant alloys) (Steel-Metallurgy)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721610015-8"

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DAVIDOVSKAYA, Te.A., kand. tekhn. nauk; KESTEL', L.P., inzh.

Heat resistance of alloyed steel in various gas media. Trudy
TSNIITMASH 92:93-108 '59. (MIRA 12:8)

(Steel-Corrosion)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721610015-8"

Effect of the concentration of sulfur dioxide and water vapors on the corrosion of austentitic steel at high temperatures.

Trudy TSHIITMASH 92:109-124 '59. (MIRA 12:8)

(Steel--Corrosion) (Sulfur dioxide)

Card 1/9	Wedensyste, M.A., Engineer, and M.D. Tomanbow, Doctor of Chemical Sciences Profesion. Defermining Interceptualize Corrosion of Chronica-Nichel Americalize Steels by Measuring the Internal Friction	Lerin, <u>I.d.</u> Candidate of Technical Sciences. Nove on the Problem of the Campes of Swinless Steel Interpretabline Corposion	Bahabar, A.A., Condidate of feebmical Sciences. Development of Two-Phase STREATAN Effective Neam of Increasing Stainless Steel Resistance to Intercrystalline Corresion	Ectors, Tr. V., Engineer. Tradency of Chromius-Hicksl-Molybdram-Copper Sizels Toward Intercrystallias Corresion	Shrunta, O.L., Candidate of Technical Sciences, and Th. S. Numeriors, Excluser. Interrepretabline Correction and Correction Cricking of Stallidess Exp-abley Americal Steels	Explain, in A. Cashishs of Related Science, L.P. Extellations of Related Science. Explain, and In. I. Hurnigh, Cashishs of Related Science. Explain, the first Trainment of Some Statishes Seeds on This Trainment Toward Investigations Corrosion **L_L. Bay Septement. Experimental lips Seeds and Corrosion of **L_L. Bay Septement. Experimental Seeds Seeds on This **Explainment Seeds See	Legiting L.F., and L.Y. Himser. Effect of the Electric Secting of the indig Succión the Processes Determining Its Sectionary to Intercrystalline Corrosion	Relayer 3.7., F.A. Lagar, and M.M. Burlepor, familiates of Seminical Sciences. Interreptabline Corresion Concentrated along the Pation Lies of Walaci Salats of the 18-6 Type Stabilized States (Tables -Type Corresion)	Exempling F.F., Condidate of ferindeal Sciences, and E.F. Hittin, Jaking Scientific Strine, Study of the Spaint of the Chilling, Lincips, and Lincips of Chronica-Rickel Steels Toward Precently tablics Corrosion	Chekis, In. I., Cendidate of Technical Sciences, S.I. Vol'foon, and Td. Mehreder, Engineer. Effect of Size Bashing on the Tendancy of IDLEST. New Investigate County Park Inve	IL. INTERCRIPALLINE CORNOBIOS OF STAINLING STRIES	cortains the collection contains discussions of interrystabline currosion of station and injury results of crossion of station statio, and injury of stations of curron station station station and system to currons which. The tendency of station is desired the same of corrects and corrects under certain conditions is desired and the same of corrects and corrects and exacting is subject. So presentities are sectioned. Peat of the articles are sectioned, Peat of the articles are sectioned.	FERMOR: This collection of articles is intended for technical personnel concerned with problems of correction of metals.	EL: 'I.A. Levis, Gendidate of Technical Sciences; Ed. of Publishing House; I.I. Menulchenio, Enginer; Tech. Ed.: V.D. El'Hod; Managing El. for Librenture on Metaborithy and Interness Maching (Maching El: V.F. Electer Digitary: Edizorial Board: I.A. Levis, Condidate of Technical Sciences (Chairmes), V.F. Batrabry, Candidate of Technical Sciences, V.M. Miniforms, Candidate of Technical Sciences, and A.V. Turburshaye, Candidate of Technical Sciences.	Emethristallitanya korrotiya i korrotiya metallov v papryazbemom sostoyanii (Intertrystalline and Stress Corrosion of Hetale) Hoscov, Kazhgis, 1960, 196 p. 3,000 ceptes printed.	** PASS I BOOK EXPLOITATION SOT/2555 **********************************	
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KESTEL'MAN, N., kandidat tekhnicheskikh nauk; KOTLYAR, L., kandidat tekhniche-

Experimental studies en milling cern meal. Muk.-elev.prem. 21 ne.11: 13-15 N 155. (MIRA 9:4)

1. Odesskiy tekhnelegicheskiy institut imeni I.V. Stalina. (Cern milling)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721610015-8"

SIMONOVICH, M.Ya. KESTEL! MAN, N.Ya.

Effect of the surface roughness of roller flutes during the 1st and 2nd breaking stages on indices of the grinding process. Izv. v.ys. ucheb. zev.; pishch. tekh. no. 2:78-84 158. (MIRA 11:10)

1. Odesskiy tekhnologicheskiy institut imeni I.V.Stalina, Kafedra tekhnologii metallov.

(Flour mills)

TSORFAS, S., inzh.; KOTLYAR, L., kand.tekhn.nauk; KESTEL'HAH, M., kand.tekhn.

For more extensive introduction of the preventive maintenance of machinery and equipment. Mak-elev.prom. 25 no.1:14-17 Ja *59.

(MIRA 12:3)

1. Odesskiy tekhnologicheskiy institut imeni I.V. Stalina. (Grain-milling machinery--Maintenance and repair)

s/191/60/000/004/014/015 B016/B058

AUTHORS:

Kestel'man, N. Ya., Ferdman, I. A.

TITLE:

Influence of the Normalizing Method on the Wear of Outer Layers of Caprone Specimens Due to Liquid Sliding Friction

PERIODICAL:

Plasticheskiye massy, 1960, No. 4, pp. 69-70

TEXT: The authors report on their studies of wear due to liquid sliding Priction on steplike shaped caprone specimens. They prepared three sets of samples which served for testing layers at different depths with regard to their wear resistance. The samples were normalized at 100°C in water and at 160 to 170°C in oil of the type "Mawuhhoel" ("Engine Oil T") for 60 min. The wear tests were made on the "Skoda - Savina" device. The places of friction were amply lubricated with oil of the type " MOTOPHOE T" ("Motor Oil T") and brought into contact with a rotating hard-metal disc. The authors conclude therefrom that: 1) the wear of samples normalized in water increases the more, the closer the layer is to the surface; 2) the contrary is the case with samples normalized in oil. It is shown that the wear resistance of the upper layers of samples

Card 1/2

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721610015-8"

Influence of the Normalizing Method on the Wear of Outer Layers of Caprone Specimens Due to Liquid Sliding Friction

5/191/60/000/004/014/015 B016/B058

normalized in water is much lower than that of samples normalized in oil. The hardness of samples normalized in oil is 1.3 to 1.7 times higher than that of samples normalized in water. Accordingly, the wear resistance of the former is also greater. Summing up: If workpieces with constant dimensions are to be manufactured in press molds, they are to be normalized in oil. There are 4 figures and 4 Soviet references.

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\$/191/60/000/005/012/020 B004/B064

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Kestel'man, N. Ya.

AUTHOR: TITLE:

Centrifugal Casting of Parts From Polyamides

PERIODICAL: Plasticheskiye massy, 1960, No. 5, pp. 41-42

TEXT: This is a description of the contrifugal casting of caprone bushings, for friction bearings as a substitute for the expensive bearing metal. It is emphasized that dimensions of the bushings must be adapted to the properties of the plastic. Copying of metal bearings is inexpedient. Bushings should be thin-walled. They are reinforced by cast-iron bushings. Caprone was dried for 30 hours at 80°C until it contained no more than 0.3% water. Then, it was filled into a cylindrical mold, molten for 15-20 minutes at 250°C, the mold clamped in the three-jaw chuck of a lathe, and the caprone caused to solidify at 800-1500 pm. Results are given for some plastics: polycaprolactam, melting point 215°C, casting temperature 230-240°C, Brinell hardness of the finished product 10-12 kg/mm²; poly-amide resin 68, melting point 210-215°C, casting temperature 250-260°C, Brinell hardness 14-15 kg/mm²; polyamide resin AK-7 (AK-7), melting point

Card 1/2

87882

Centrifugal Casting of Parts

s/191/60/000/005/012/020 B004/B064

240-243°C, casting temperature 250-265°C, Brinell hardness 15-18 kg/mm²; oc, polyamide resin 54, melting point 150-160°C, casting temperature 170-180°C, Brinell hardness 4-4.5 kg/mm². The empirical formula n = 2000/TR - 8 From Polyamides (n = number of revolutions, R = external diameter of the bushing, & = wall thickness in cm) is given to calculate the necessary speed. The procedure is applied by the Dnepropetrovskiy zavod srednikh gidravlicheskikh i tyazhelykh mekhanicheskikh pressov (Dnepropetrovsk Works for Medium Hydraulic and Heavy Mechanical Presses) and Zaporozhskiy zavod "Kommunar" (Zaporozh'ye "Kommunar" Works). Tests showed that the bearing capacity of caprone is not inferior to that of various bearing bronzes when oil lubrication is applied. Moreover, different lubricants including water can be used for caprone. For oil lubrication, a gliding velocity can be used for caprone. For our function, a girding vertically v = 3 m/sec and a pressure $P = 100 \text{ kg/cm}^2$, i.e., Pv = 300, were found to be optimum. There are 2 figures and 1 table.

Card 2/2

KESTEL'MAN, N.Ya., kand.tekhn.nauk, dotsent

Surface roughness caused by cutting secondary capron. [av.vys.]

ucheb.zav.; mashinostr. no.1:185-191 '61.

1. Odesskiy tekhnologicheskiy institut.

(Nylon)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721610015-8"

21143

24 2300 1160, 1138

S/191/61/000/004/005/009 B110/B208

AUTHORS:

Kestel'man, N. Ya., Kestel'man, V. N.

TITLE:

Apparatus for measuring the thickness of plastic coatings, considering the unevenness of the metallic surface

PERIODICAL:

Plasticheskiye massy, no. 4, 1961, 48-50

TEXT: A device developed in the magnet laboratory of MGU (Moscow State University) with a permanent magnet, as well as an electric spark defectoscope of VNIIAvtogen were used to measure the thickness of plastic coatings. These apparatus are, however, not very well suited for production control. When applying polyamide coatings on ferrous metals, the coating quality increases with decreasing surface purity of the metal (from V8 to V1 according to FOCT 2789-59 (GOST 2789-59)). The magnetoelectric device for thickness measurements (Fig. 1) consists of the immobile horseshoe magnet 1 and the mobile frame 2. To increase the magnetic effect, the clearance between the frame and the poles 3 from soft magnetic material is kept very small. Interaction of magnetic field and direct current in the frame causes deflection of the pointer 4. The direct current flows from the dry

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Card 1/6

21143

S/191/61/000/004/005/009 B110/B208

Apparatus for measuring the ...

cell 7 of the KbC- Λ -0.50 (KBS-L-0.50) type to the frame via spring 6. The initial adjustment is effected by potentiometer 8. The device has four scales of different sensitivity. The flat shoes 9 of the magnet are put on the specimen (10). 11 is the switch. At high surface purity (711-13) of the specimen, the clearance between it and the shoes is nearly equal to zero. It exerts a shunting effect on the magnetic system which, in turn, has only a weak induction effect on the frame. This minimum deflection of the pointer then indicates the zero point. With increasing thickness of a plastic coating between metal surface and shoes, the shunting effect of the specimen on the magnetic system decreases, while the induction effect on frame 2 and the angular deflection of pointer 2 increase. Fig. 2 shows the dependence of the pointer indication on the coating thickness (0.25-3.5 mm) at constant height of the unevenness of the metal surface \overline{V} 6. The measuring ranges of the scales are: Scale I: δ = 1-3.5 mm; scale II: $\delta = 0.5-2$ mm; and scale III: $\delta = 0-0.75$ mm. If shoes with a vertex angle of 450 are used, the thickness of coatings of any surfaces may be measured with scale IV (racks, gears, cylindrical shafts, rolls, etc.). To determine the dependence of indication on the unevenness of the metal surface, measurements were carried out at equal coating thick-

Card 2/6

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Apparatus for measuring the...

S/191/61/000/004/005/009 B110/B208

ness but different heights of unevenness (Fig. 4). The wanted scale is adjusted to zero according to the standard (78). First, the deflection n on contact with the non-coated surface is read, then the deflection n₁ after coating, and, finally, the thickness is determined from Fig. 2. As the apparatus indicates both the coating thickness and the height of unevenness, a correction factor K_{R} has to be introduced to determine the actual coating thickness $\delta_{\mathbf{g}}$. In order to obtain $K_{\mathbf{R}}$, the degree of purity of the metal surface has to be measured by using Fig. 4 with known indication of n. K_R will then be read from the table. A polished steel surface corresponding to the 8th purity grade and having a mean arithmetic profile deviation $R_a = 0.63\mu$ was used as standard. The actual coating thickness is obtained from $l_g = l \cdot K_R$ mm, where $l_g =$ actual coating thickness; l = thickness obtained from Fig. 2 according to instrument indication; KR = corrective factor. In this way, the thickness of polycaprolactam, polyethylene, polyvinyl chloride, and polystyrene coatings was determined. There are 5 figures, 1 table, and 2 Soviet-bloc references.

Card 3/6

Expediency of using capron in the trieur disk manufacture. Izv.
vys. ucheb. zav.; pishch. tekh. no. 2:108-113 '61. (MIRA 14:5)

1. Odesskiy tekhnologicheskiy institut imeni I.V. Stalina.
Kafedra tekhnologii metallo i Kafedra tekhnologicheskogo
oborudovaniya.

(Grain-handling machinery)
(Nylon)

KESTEL'MAN, N. Ya.; KESTEL'MAN, V.N.

Instrument for determining the thickness of a plastic coat, making allowances for the roughness of the metallic surface. Plast massy no.4:48-50 '61. (MIRA 14:4) (Plastics—Testing) (Thickness measurement)

43772 -

S/653/61/000/000/028/051 I042/I242

AUTHOR: Kestel'n

Kestel'man, N. Ya.

TITLE:

Investigation of the abrasion endurance of caprone

SOURCE:

Plastmassy v mashinostroyenii i priborostroyenii. Pervaya resp. nauch.-tekh. konfer. po vopr. prim. plastmass v machinostr. i priborostr., Kiev, 1959. Kiev, Gostekhizdat, 1961, 325-334

TEXT: The wear endurance of caprone, bronze, and cast iron was tested by five methods which are described. They include two frictional tests against abrasive materials, a low-velocity frictional test, an improved test for hardness, and a test for lubricated surfaces. The wear resistance of caprone was found superior to that of the other materials due to the formation of a compact surface layer. The addition of 2-2.5% silver graphite increased considerably the

Card 1/2

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Investigation of the abrasion endurance...

Wear resistance of caprone. The effect of environment on the hardness of caprone is discussed. Normalization of caprone in oil increased its hardness by 13-20% while normalization in water caused a 7-13% decrease. Thrice fused caprone has low wear resistance despite its high hardness. There are 8 figures and 4 tables.

Card 2/2

KESTEL'MAN, N.Ya.

Economic efficiency of using plastics in refrigerating machinery.

Biul.tekh.-ekon.inform.Gos.nauch.-issl.inst.nauch.i tekh.inform.

16 no.4:24-26 '63. (MIRA 16:8)

(Refrigeration and refrigerating machinery) (Plastics)

KESTEL'MAN, N.Ya.; KESTEL'MAN, V.N.

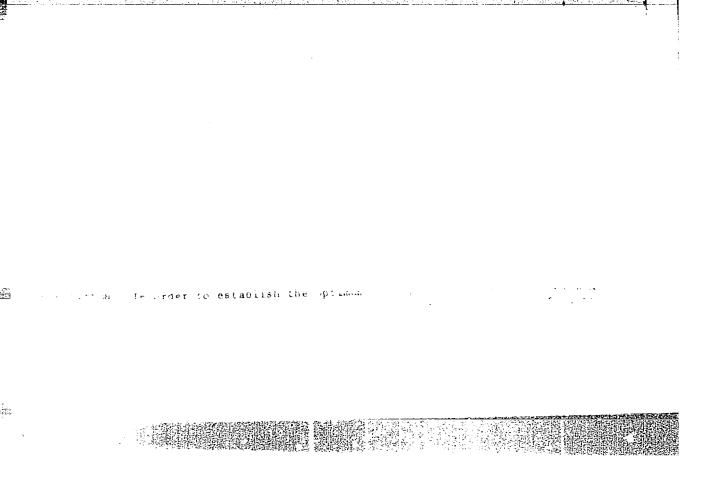
Apparatus for determining the hardness of plastic thin-layer coatings and bushings. Zav. lab. 29 no.10:1252-1253 '63. (MIRA 16:12)

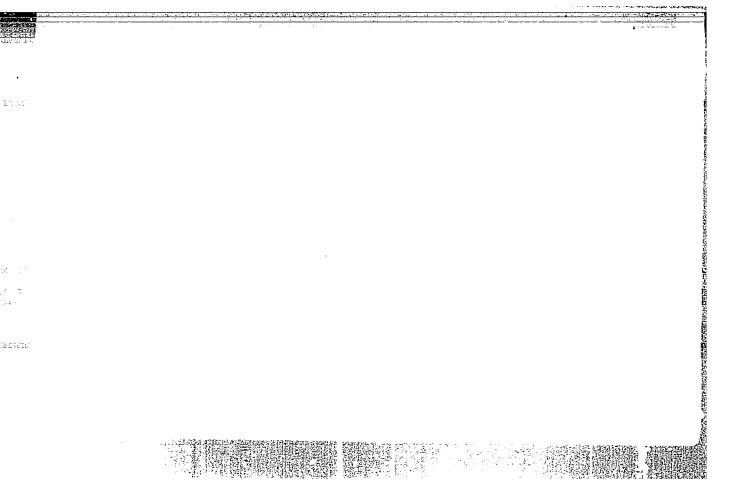
1. Odesskiy tekhnologicheskiy institut imeni Lomonosova.

GENEL', S.V., kand. tekhn. nauk; KESTEL'MAN, N.Ya., kand. tekhn. nauk; KESTEL'MAN, V.N., inzh.; KOGAN, A.M., inzh., retsenzent; BLAGOSKLONOVA, N.Yu., inzh., red.

[Polymeric materials in food machinery manufacture] Polimernye materialy v pishchevom mashinostroenii. Moskva, Izdvo "Mashinostroenie," 1964. 382 p. (MIRA 17:6)

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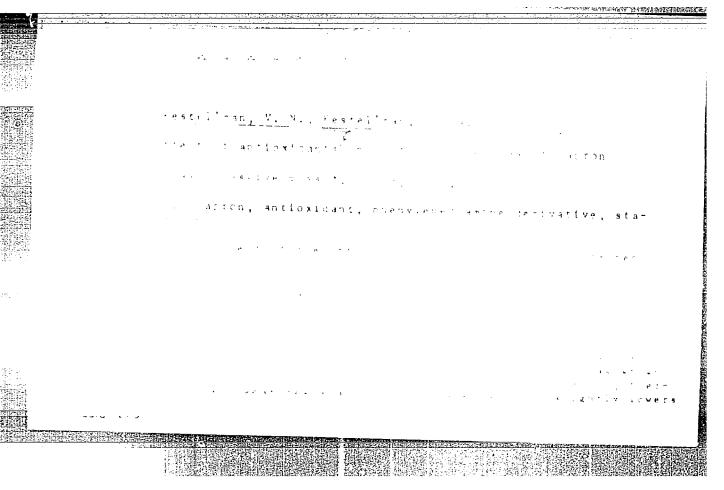


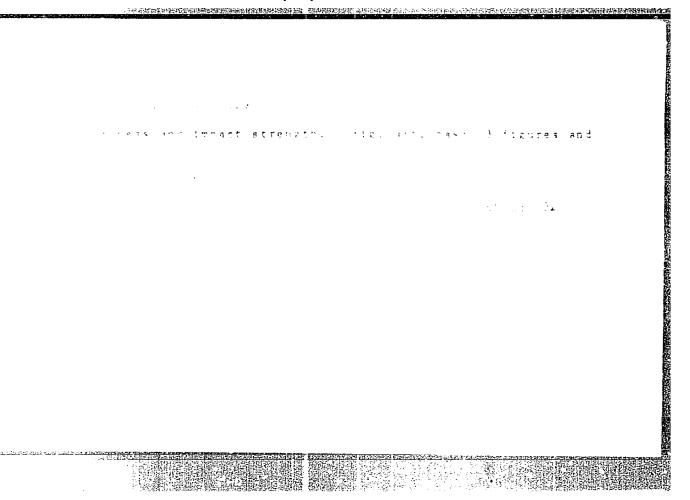
KESTEL TAN, N. Ya.; KESTEL M.N., V. N.

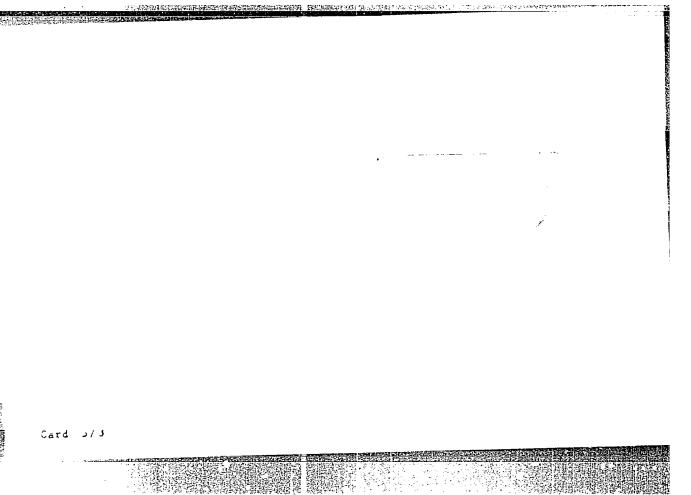
Utilization of plastic coated metals in the manufacture of food machinery. Izv.vys.ucheb.zav.; pishch.tekh.no. 2:80-83 164. (MIRA 17:5)

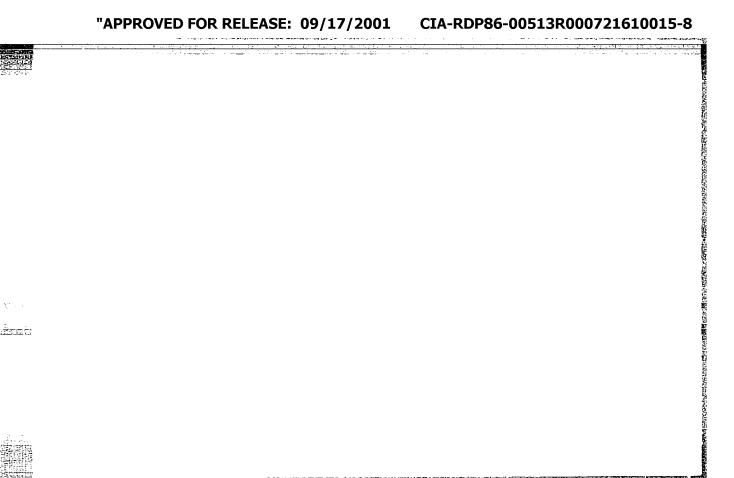
1. Odesskiy tekhnologicheskiy institut imeni Lomonosova i Moskovskiy tekhnologicheskiy institut pishchevoy promyshlennosti.

- 1987年 - 19









KESTRE MAN, N. Ya., kund. tekhn. nauk, dotsent; CHEYR!, A.D., kand. tekhn. nauk;

Effect of lonizing radiations on the wear resistance of polyamides. Izv.vys.ucheb.zav.;mashinostr. no.5:168-172 164.

(MIRA 18:1)

1. Odesskiy tekhnologicheskiy institut imeni M.V.Lomencsova.

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Higher to continue and time to maching on inter on the surface smoothness of plastic parts. Ity. we wench. n.v.; maskinestr. no.9:100-169 'tex. (MIM 19:12)

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KESTEL*MAN, V.N.; RUTTO, R.A.; KESTEL*MAN, N. Ya.; SHAPOVALOY, Yu.I.; MIRONOVICH, L.L.

Selecting parameters and methods for applying caprone coatings on metal surfaces. Mashinostroitel no.11:33-34 N '64 (MIRA 18:2)

VITZEY, V.S.; in File Man, N.Ya.

Confa. and strainer on the problem of the use of plastice in gratinery manufacture. Flast manay no.6:72-73 (6).

(MIRA 18:8)

VOLKEY, V.A., MESTELIMAN, N.Ya., kand. tekhn. nauk, dotsert

Conference-seminar on the introduction of plastics into the machinery industry. Vest. mashinostr. 45 no.6:85 Je '65.

(MIRA 18:6)

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CIA-RDP86-00513R000721610015-8

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ACCESSION NR: AP5019570

UR/0191/65/000/008/0059/0061 678.675'125.026.3.01:536.53:539.6125

AUTHOR: Kestel'man, V. N.; Rutto, R. A.; Kestel'man, N. Ya.; Shapovalov, Yu. I.;

Mironovich, L. L. 55 44

55,44

55,44

TITLE: Durability and adhesion of <u>nylon</u> coatings as a function of the methods of their deposition on metal surfaces $\frac{44,55}{44,55}$ K

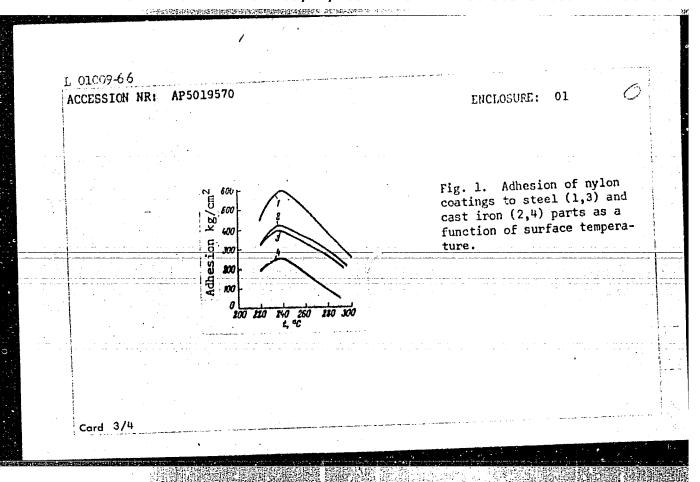
SOURCE: Plasticheskiye massy, no. 8, 1965, 59-61

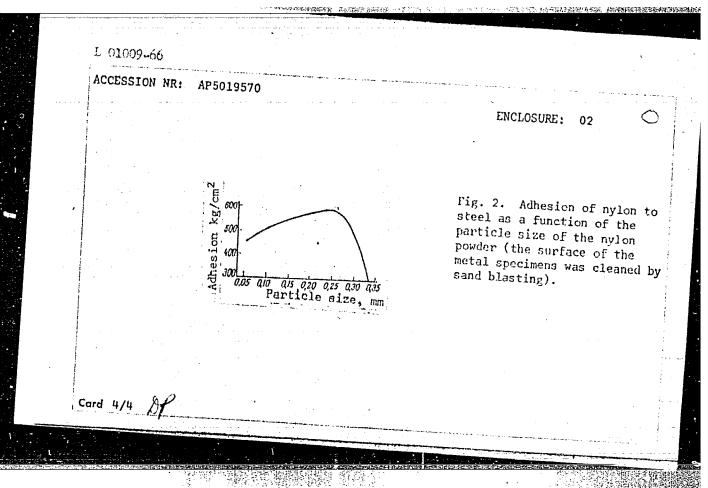
TOPIC TAGS: adhesive bonding, nylon, steel, cast iron, plastic coating

ABSTRACT: The properties of polyamide coatings, obtained by closely related methods are compared. The optimum temperature of the metal during the deposition of the nylon film was found to be 225-250°C (see fig. 1 of the Enclosure). Deviation from this temperature sharply decreases the adhesion of the coating and its physical and mechanical properties. Sand blasting of the surface of the metal increases the strength of coupling between the coating and the metal. The best adhesion of nylon to steel is achieved when the particle size of nylon is in the 200-270 μ range (see fig. 2 of the Enclosure). Below 200 μ nylon is oxidized at elevated temperatures

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ACCESSION NR: AP5019570								
n caprolacta ound that co ility. The	nm monomer; patings obt most stabless their p	, precipitat tained by di le nylon coa	tion, extraction of ifferent methods of atings were obtain o S. B. Ratner for	were produced by dissolution of nylon tion of solvent and drying. It was nods differ significantly in their durable tion of the vibration method. "The er for his valuable advice." Orig.				
SSOCIATION:	none				:			
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			OTHER: 002					
REF SOV:	006		OTHER: 002					
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O REF SOV:	006		OTHER; UU2					





IVASHKEVICH, V.P., inzh.; KESTEL'MAN, V.I., inzh.

Use of plastics in equipment. Mashinostroenie no.4:39-41 Jl-Ag '62. (MIRA 15:9)

1. Zaporozhskiy sovet narodnogo khozyaystva. (Plastics)

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1160, 1138 24.2300

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AUTHORS:

Kestel'man, N. Ya., Kestel'man, V. N.

TITLE:

CONTRACTOR OF THE PARTY OF THE

Apparatus for measuring the thickness of plastic coatings, considering the unevenness of the metallic surface

PERIODICAL: Plasticheskiye massy, no. 4, 1961, 48-50

TEXT: A device developed in the magnet laboratory of MGU (Moscow State University) with a permanent magnet, as well as an electric spark defectoscope of VNIIAvtogen were used to measure the thickness of plastic coatings. These apparatus are, however, not very well suited for production control. When applying polyamide coatings on ferrous metals, the coating quality increases with decreasing surface purity of the metal (from 78 to 71 according to FOCT 2789-59 (GOST 2789-59)). The magnetoelectric device for thickness measurements (Fig. 1) consists of the immobile horseshoe magnet 1 and the mobile frame 2. To increase the magnetic effect, the clearance between the frame and the poles 3 from soft magnetic material is kept very small. Interaction of magnetic field and direct current in the frame causes deflection of the pointer 4. The direct current flows from the dry Card 1/6

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Apparatus for measuring the ...

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cell 7 of the KbC-A-0.50 (KBS-L-0.50) type to the frame via spring 6. The initial adjustment is effected by potentiometer 8. The device has four scales of different sensitivity. The flat shoes 9 of the magnet are put on the specimen (10). 11 is the switch. At high surface purity (711-13)of the specimen, the clearance between it and the shoes is nearly equal to zero. It exerts a shunting effect on the magnetic system which, in turn, has only a weak induction effect on the frame. This minimum deflection of the pointer then indicates the zero point. With increasing thickness of a plastic coating between metal surface and shoes, the shunting effect of the specimen on the magnetic system decreases, while the induction effect on frame 2 and the angular deflection of pointer 2 increase. Fig. 2 shows the dependence of the pointer indication on the coating thickness (0.25-3.5 mm) at constant height of the unevenness of the metal surface $\nabla 8$. The measuring ranges of the scales are: Scale I: $\delta = 1-3.5$ mm; scale II: $\delta = 0.5-2$ mm; and scale III: $\delta = 0-0.75$ mm. If shoes with a vertex angle of 45° are used, the thickness of coatings of any surfaces may be measured with scale IV (racks, gears, cylindrical shafts, rolls, etc.). To determine the dependence of indication on the unevenness of the metal surface, measurements were carried out at equal coating thick-Card 2/6

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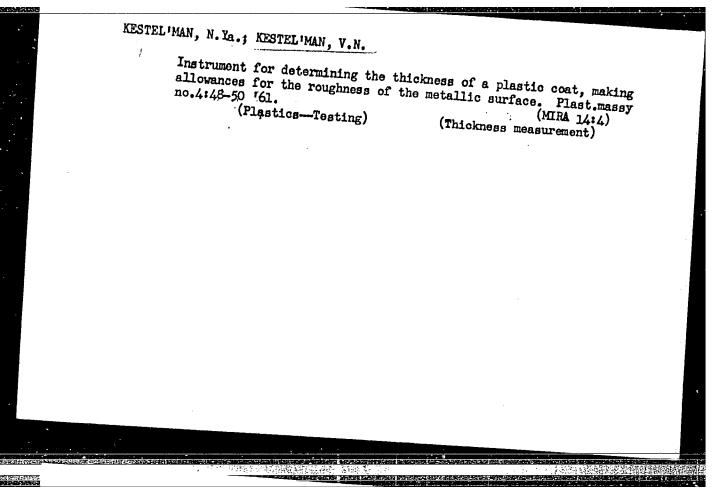
Apparatus for measuring the...

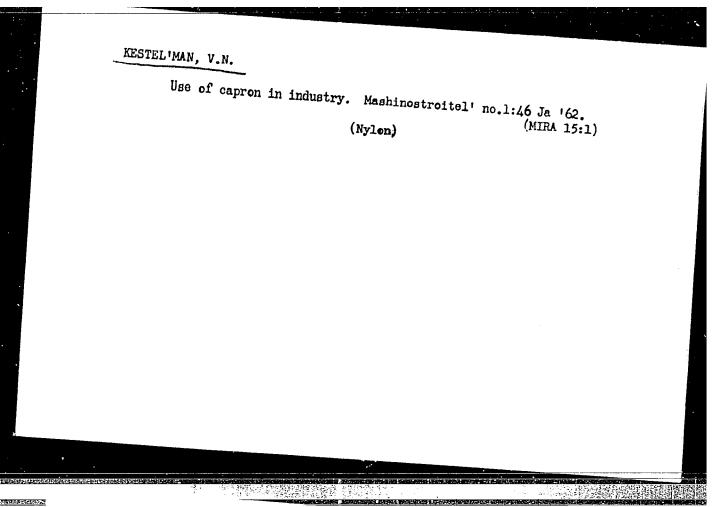
S/191/61/000/004/005/009 B110/B208

ness but different heights of unevenness (Fig. 4). The wanted scale is adjusted to zero according to the standard (V8). First, the deflection n on contact with the non-coated surface is read, then the deflection n_1 after coating, and, finally, the thickness is determined from Fig. 2. As the apparatus indicates both the coating thickness and the height of unevenness, a correction factor K_R has to be introduced to determine the actual coating thickness δ_g . In order to obtain K_R , the degree of purity of the metal surface has to be measured by using Fig. 4 with known indication of n. K_R will then be read from the table. A polished steel surface corresponding to the 8th purity grade and having a mean arithmetic profile deviation $R_A = 0.63\mu$ was used as standard. The actual coating thickness is obtained from $\delta_g = \delta \cdot K_R$ mm, where $\delta_g =$ actual coating thickness; $\delta =$ thickness obtained from Fig. 2 according to instrument indication: $K_R =$ corrective factor. In this way, the thickness of polycaprolactam, polyethylene, polyvinyl chloride, and polystyrene coatings was determined. There are 5 figures, 1 table, and 2 Soviet-bloc references.

Card 3/6

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KESTEL'MAN, V.N., inzh.; IVASHKEVICH, V.P., inzh.

Manufacturing capron bushings. Mashinostroenie no.6329-31 N-D

'62.

(MIRA 1622)

1. Zaporozhskiy avtozavod "Kommunar".

(Nylon)

IVASHKEVICH, V.P.; KESTEL'MAN, V.N.

Flastic equipment. Mashinostroitel' no.5:17-18 My '62.

(Plastics)

(MIRA 15:5)

IVASHKEVICH, V.P.; KESTEL'MAN, V.N.

Use of plastics in the electric equipment industry. Energ. i elektrotekh. prom. no.3:76 Jl-S '63. (MIRA 16:10)

1. Pridneprovskiy sovet narodnogo khozyaystva.

16821-63 EPR/EMP(1)/EPP(c SMT(-) BDC ST(s To Will DJ reside man V N. Yabokevica. New polymeric material for machine building SOURCE: Byulleten! tekhniko-ekonomicheskoy informatsii, no. 6, 1963, TOPIC TAGS: polyformaldehyde, polymeric material, machine part, ABSTRACT: The Kuskovskiy Chemical Flant has developed a new polymeric material known as polyformaldehydelb(PFA). PFA is more wear resistant than the various polyamides that have been widely used in the machine building industry because of their wear resistance. PFA has a denser crystal lattice than polyethylene which increases its physicalmechanical properties. PFA preserves its mechanical properties under high fluctuating temperatures up to 393°K. It is produced in the form of yellow granules which are processed by die casting, pressing, or extrusion. Machine parts made of PFA should be heat treated by soaking in boiling water or oil at 427°K for 1-3 min for each 1 mm of part thickness. Wear resistance of PFA has proven superior to

L 16821-63 ACCESSION NR: AP3004 to capron and ceramet ball bearings, geers	ib.	
to capron and coramet	ib.	
mechanical properties, present the Kommunar A Plant are developing rables, or formulas. ASSOCIATION: None	in automobile machine part and other machine parts be heat resistance, and low Automobile Plant and the Kunew uses for PFA. Orig. ar	cs. PFA is used for cause of its good water absorbency. At skovskiy Chemical
SUBMITTED: 00 SUB CODE: CH, MA	DATE ACQ: 02Aug63	ENCL: 00
		OTHER: 000
Card 2/2		

KESTEL'MAN, V.N.; IVASHKEVICH, V.P.

"Stavinil," a new promising combined material. Plast. massy no.11:60-61 '63.

(MIRA 16:12)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721610015-8"

New polymer material used in the manufacture of machinery. Biul. tekh.-ekon.inform.Gos.nauch.-issl.inst.nauch.i tekh.inform. 16 no.6:20-21 '63. (MIRA 16:8)

KESTEL'MAN, N.Ya.; KESTEL'MAN, V.N.

Apparatus for determining the hardness of plastic thin-layer coatings and bushings. Zav. lab. 29 no.10:1252-1253 '63.

1. Odesskiy tekhnologicheskiy institut imeni Lomonosova. (MIRA 16:12)

FEL'DMAN, D.I., inzh.; KESTEL'MAN, V.N., inzh.

Determining dimensions of capron bushings. Mashinostroenie no.4: 90-91 Jl-Ag '63. (MIRA 17:2)

1. Zaporozhskiy avtozavod "Kommunar".

KESTEL'MAN, V.N.

Wear resistance of "penton" plastics. Plast.massy no.12:60-61 '63. (MIRA 17:2)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721610015-8"

GENEL', S.V., kand. tekhn. nauk; KESTEL'MAN, N.Ya., kand. tekhn. nauk; KESTEL'MAN, V.N., inzh.; KOGAN, A.M., inzh., retsenzent; BLAGOSKIONOVA, N.Yu., inzh., red.

[Polymeric materials in food machinery manufacture] Polimernye materialy v pishchevom mashinostroenii. Moskva, Izdvo "Mashinostroenie," 1964. 382 p. (MIRA 17:6)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721610015-8"

BENDERSKIY, S.N., kand.tekhn. nauk; BURSIAN, V.R., prof., kand.
tekhn. nauk; VASIL'YEV, P.N., inzh.; DORFMAN, E.Ye., inzh.;
ZHURAVLEV, V.F., kand. tekhn. nauk; KESTEL'MAN, V.N.,
inzh.; KRUGLOV, A.N., dots., kand. tekhn. nauk; KUKIENYY,
A.A., dots., kand.tekhn. nauk; LEVACHEV, N.A., dots., kand.
tekhn. nauk; LEYKIN, A.Ya., inzh.; NAREMSKIY, N.K., dots.,
kand. tekhn. nauk; PLATONOV, P.N., prof., doktor tekhn.
nauk; SOKOLOV, A.Ya., prof., doktor tekhn. nauk; KUTSENKO,
K.I., kand. tekhn. nauk, dots., retsenzent; VEREMEYENKO,
Ye.I., inzh., retsenzent; KOVTUN, A.P., inzh., retsenzent;
SEMENYUK, A.I., retsenzent; KASHCHEYEV, I.P., inzh.,
retsenzent; PAL'TSEV, V.S., kand. tekhn. nauk, retsenzent;
KHMEL'NITSKAYA, A.Z., red.

[Conveying and reloading machinery for the overall mechanization of the food industries] Transportiruiushchie i peregruzochnye mashiny dlia kompleksnoi mekhanizatsii pishchevykh proizvodstv. Moskva, Pishchevaia promyshlennost!, 1964.
759 p. (MIRA 18:3)

(Continued on next card)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000721610015-8"

BENDERSKIY, S.N. (continued). Card 2.

1. Odesskiy tekhnologicheskiy institut imeni M.V.Lomonosova (for Kutsenko, Naremskiy, Veremeyenko, Kovtun). 2. Starshiy ekspert Upravleniya po avtomatizatsii i oborudovaniyu dlya pishchevoy promyshlennosti Gosudarstvennogo komiteta po mashinostroyeniyu pri Gosplane SSSR (for Semenyuk). 3. Glavnyy mekhanik Gosudarstvennogo instituta po proyektirovaniyu predpriyatiy mukomol'nokrupyanoy i kombikormovoy promyshlennosti i elevatorno-skladskogo khozyaystva (for Kashcheyev).
4. Zaveduyushchiy laboratoriyey Vsesoyuznogo nauchno-issledovatel'skogo instituta zerna i produktov ego pererabotki (for Pal'tsev).

KESTEL'MAN, V.N., inzh.; IVASHKEVICH, V.P., inzh.

Autoclave with induction heating for making parts from capron. Mashinostroenie no. 2:30-32 Mr-Ap '64. (MIRA 17:5)

KESTEL'MAN, V. N.

Research in the field of the utilization of capron in the manufacture of food machinery. Izv.vys.ucheb.zav.; pishch.tekh.no.2: 75-79 '64. (MIRA 17:5)

 Moskovskiy tekhnologicheskiy institut pishchevoy promyshlennosti, kafedra pishchevykh mashin.

KESTEL I AN, N. Ya.; KESTEI M.N., V. N.

Utilization of plastic coated metals in the manufacture of food machinery. Izv.vys.ucheb.zav.; pishch.tekh.no. 2:80-83 *164. (MIRA 17:5)

 Odesskiy tekhnologicheskiy institut imeni Lomonosova i Moskovskiy tekhnologicheskiy institut pishchevoy promyshlennosti.

IVASHKEVICH, V.P., inzh.; KESTEL'MAN, V.N., inzh.

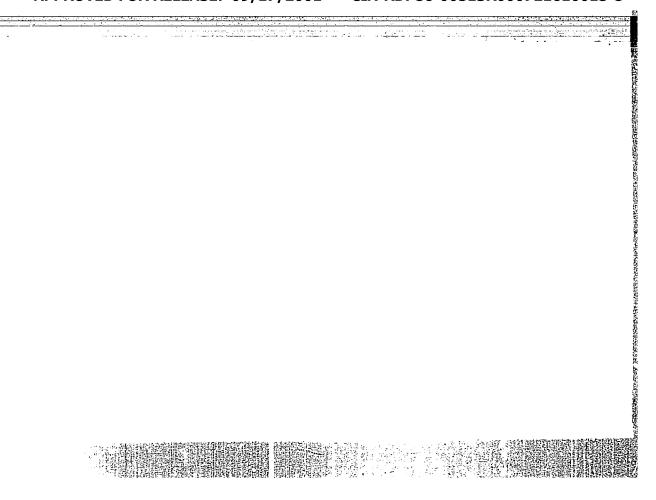
New polymer material for the machinery industry. Mashinostroenie no.1:17-18 Ja-F '64. (MIRA 17:7)

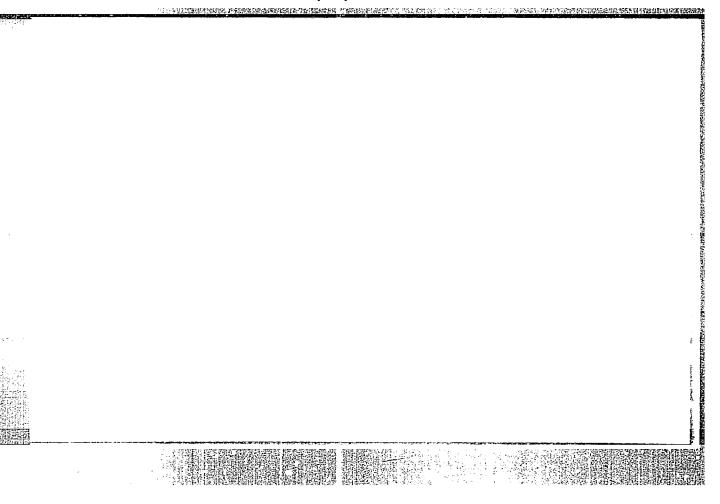
KESTEL'MAN, N.Ya., kund. tekhn. nauk, dotsent; CHMYR', A.D., Mand. tekhn. nauk; KESTEL'MAN, V.N., inzh.

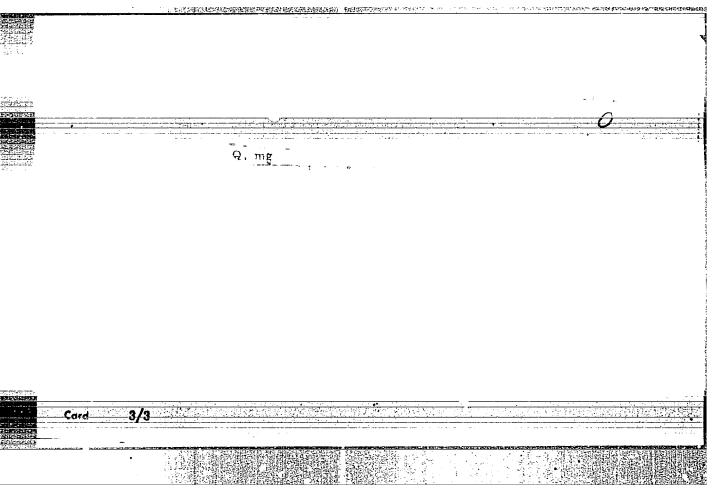
Effect of lonizing radiations on the wear resistance of polyamides. Izv.vys.ucheb.zav.;mashinostr. no.5:168-172 164.

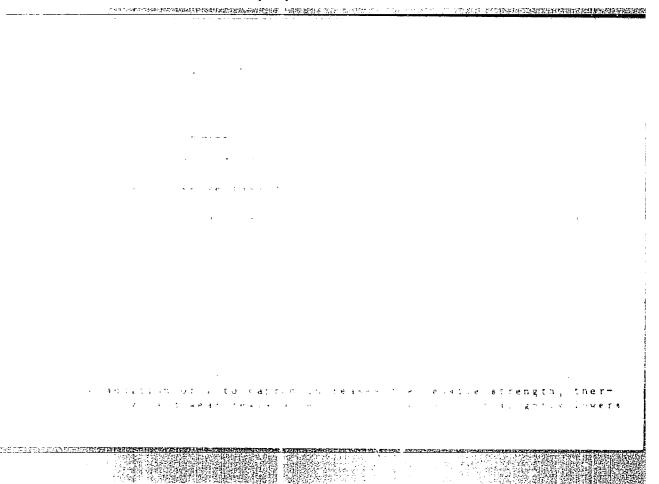
(MIRA 18:1)

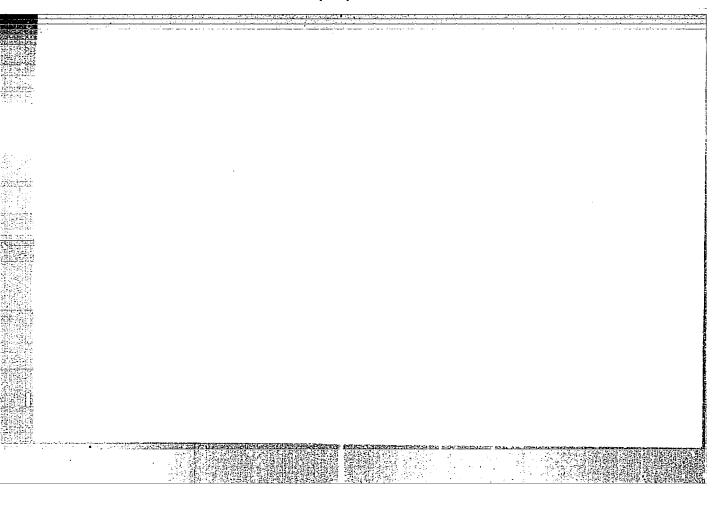
1. Odesskiy tekhnologicheskiy institut imeni M.V.Lomonosova.

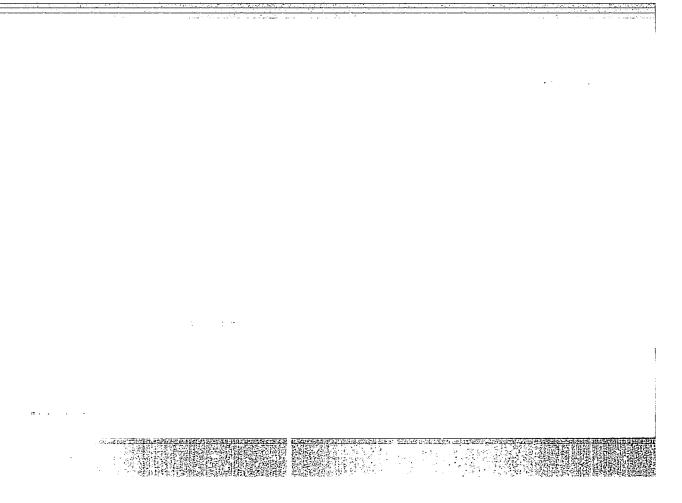


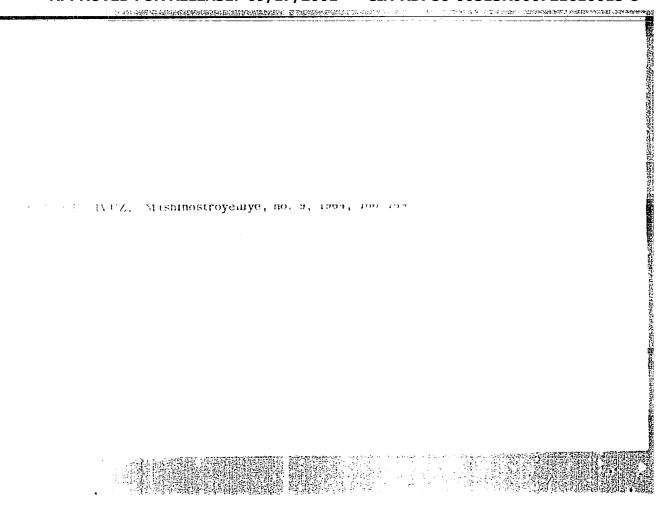


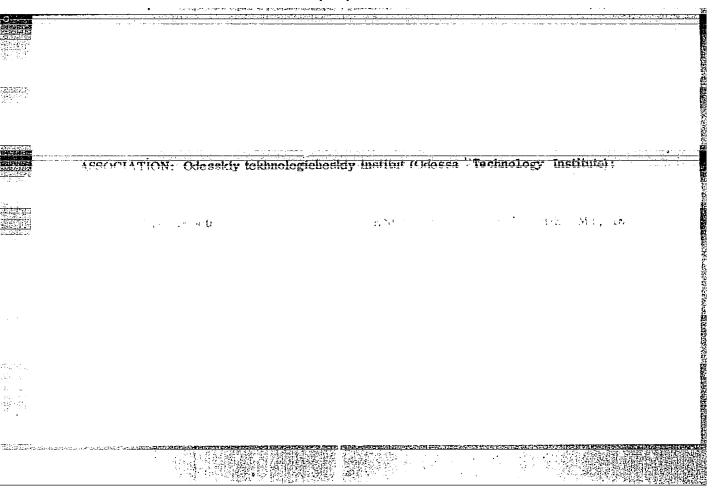










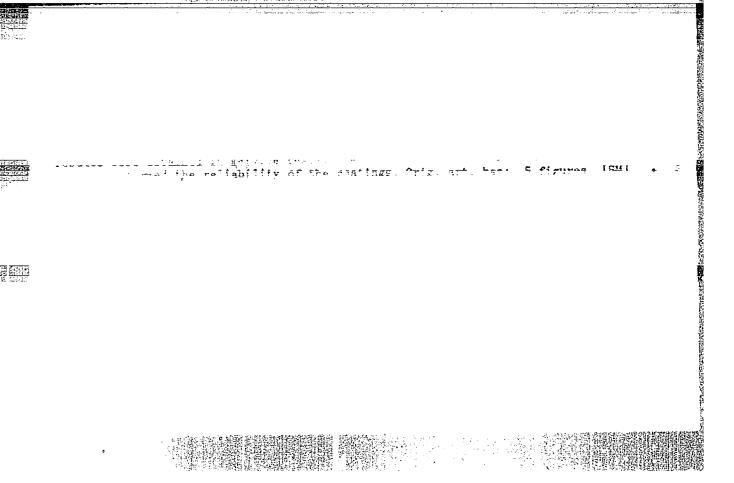


KESTEL'MAN, V.N.; RUTTO, R.A.; KESTEL'MAN, N. Ya.; SHAPOVALOV, Yu.I.; MIRONOVICH, L.L.

Selecting parameters and methods for applying caprone coatings on metal surfaces. Mashinostroitel no.11:33-34 N '64 (MIRA 18:2)

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ENT(m)/EPF(c)/ENP(i)/ENP(v)/ENP(j)/T/ENF(t)/ENP(b) UR/0191/65/000/008/0059/0061 ACCESSION NR: AP5019570 678,675'125.026.3.01:536.53:539.612 AUTHOR: Kestel'man, V. N.; Rutto, R. A.; Kestel'man, N. Ya.; Shapovalov, Yu. I. Mironovich, L. L. 55 44 55,44 Mironovich, L. L. 55 Hu TITLE: Durability and adhesion of <u>nylon</u> coatings as a function of the methods of their deposition on metal surfaces $\frac{47.55}{47.55}$ SCURCE: Plasticheskiye massy, no. 8, 1965, 59-61 TOPIC TAGS: adhesive bonding, nylon, steel, cast iron, plastic coating ABSTRACT: The properties of polyamide coatings, bobtained by closely related methods are compared. The optimum temperature of the metal during the deposition of the nylon film was found to be 225-250°C (see fig. 1 of the Enclosure). Deviation from this temperature sharply decreases the adhesion of the coating and its physical and mechanical properties. Sand blasting of the surface of the metal increases the strength of coupling between the coating and the metal. The best adhesion of nylon to steel is achieved when the particle size of nylon is in the 200-270 µ range (see fig. 2 of the Enclosure). Below 200 μ nylon is oxidized at elevated temperatures Card 1/4

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n caprolactam monomer, preci	above 270 u it is poorly melted. Powders were produced by dissolution of nylon caprolactam monomer, precipitation, extraction of solvent and drying. It was not that coatings obtained by different methods differ significantly in their dura-						
ility. The most stable nylo	n coatings wer	re obtained by the	e vibration me	thod. "	ura- The		
authors express their gratituers. 4 figures.	de to <u>S. B. Ra</u>	atner for his value 44.55	uable advice."	Orig.	!		
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